

Supplementary Information

Table S1. Summary of genes, primers, and product sizes for RT-qPCR.

Gene	Primer Name	Primer Sequence (5' to 3')	Product Size (bp)	Anneal Temperature (°C)
<i>LPL</i>	LF	AGGACACTTGCCACCTCATTC	169	60
	LR	TTGGAGTCTGGTTCCTCTTGTA		
<i>FASN</i>	FF	GGGCTCCACCACCGTGTTCCA	226	60
	FR	GCTCTGCTGGGCCTGCAGCTG		
<i>PPARG</i>	PF	CCTTCACCACCGTTGACTTCT	144	60
	PR	GATACAGGCTCCACTTTGATTGC		
<i>LIPE</i>	LIF	GGGAGCACTACAAACGCAACG	118	60
	LIR	TGAATGATCCGCTCAAACCTCG		
<i>ACACA</i>	AF	CTCCAACCTCAACCACTACGG	171	60
	AR	GGGGAATCACAGAAGCAGCC		
<i>SREBF1</i>	SF	CTGCTGACCGACATAGAAGACAT	81	60
	SR	GTAGGGCGGGTCAAACAGG		
<i>FFAR3</i>	FFF	GATGGCAGTGGTCCTCTTTG	203	60
	FFR	GGCTTTCACCCTGGATGTAG		
<i>GADPH</i>	GAF	GCAAGTTCCACGGCACAG	249	60
	GAR	GGTTCACGCCCATCACAA		
<i>RPS9</i>	RF	CCTCGACCAAGAGCTGAAG	64	60
	RR	CCTCCAGACCTCACGTTTGTTTC		
<i>UXT</i>	UF	TGTGGCCCTTGGATATGGTT	101	60
	UR	GGTTGTCGCTGAGCTCTGTG		

Table S2. Primer sequences used for cDNA generation of goat *LPL*.

Gene	Primer Name	Primer Sequence (5' to 3')	Amplification Product (bp)
<i>LPL</i>	<i>LPLF</i>	CTCGGGCTCAGCGGTTCTA	1606
	<i>LPLR</i>	CCATCTAAAGCACTGGGCGT	
	<i>LPL3F1</i>	GAGATCTCTGTATGGCACT	1319
	<i>LPL3R</i>	TCTAACGCACCTCTTCATCATTT	
	<i>LPL3F2</i>	GTGCTTAAAACCATTTGTGGACA	1100
	<i>LPL5R</i>	ATCATAATAACCCGAGGCGGCAGCAGGC	185

Figure S1. Prediction of *trans*-membrane structure of goat *LPL* using TMHMM program. The *N*-terminal is located toward zero on the axis of *x* and *C*-terminal is located on the opposed end of the axis of *x*.

